SHIP SYSTEM	SUBSYSTEM	MRC CODE	
		R	-
SYSTEM Remote Operating Gear	EQUIPMENT Mechanical Remote Operators for Valves	RATES M. GS-11/12 24.	
MAINTENANCE REQUIREMENT DESCRIP  1. Conduct TARGET assess operated valve.  2. Test operate remote m	ment of remote manually	TOTAL M/H 24.0 ELAPSED TIME	
SAFETY PRECAUTIONS  1. Forces afloat comply Afloat, OPNAVINST 510	with NAVOSH Program Manua 0.19 series.	l for Forces	
TOOLS, PARTS, MATERIALS, TEST EQUIF MATERIALS  1. [0866] Marker, tube t 2. [1102] Rags, wiping  TOOLS  1. [0608] Hammer, hand, Machinist's ball peen 0Z, nonsparking 2. [0892] Mirror, inspect 2-1/4" dia glass,	3. [1170] Mirror 4. [1463] Wrench 8" heavy duty open 5. [2271] Flashl style 1, expl 1, 24 6. [3886] Screwd tip, 6"	ight, Type 3, osive proof	
ajustable length hand NOTE: Numbers in brackets	MISCELLANEOUS  lle 1. Radio, Walkie  can be referenced to Star eation Guide (SPMIG) for se	ndard PMS	PAGE 1 C
	l man-hours assigned are a ay require adjustment for		OF 3
	to DOD components and DOD		87
document shall be referre	v: August 1997. Other requed to Naval Sea Systems Control that will prevent distant on of the document.	mmand (SEA	AAAA
LOCATION		DATE August 1997	z

## a. Compile the following documents before going on-board ship. (1) From the Damage Control Book, obtain a list of remote operated valves. The valve list should indicate: (a)System (b) Valve Number (c) Valve Location (d)Function (e)Control Panel location (f)Kind of valve (g)Valve size (h)Valve type (i)Responsible Division (j)Damage Control Classification (2) Copy of EOSS Diagram that shows the complete ROG for each system. (3) Technical Manuals on ROG: Such as ELLIOTT MANUFACTURE for Remote Valve Operators, TELEFLEX for remote Mechanical Valve Actuator, and Design Manual for Marine Valve Remote Operators. b. Accomplish the following on-board ship: (1) Review TARGET 2-Kilos and ships CSMP reports. Add additional information if required and close out 2-Kilos/CSMP reports that are completed. (2) Contact ship's force in CCS to obtain two (2) Portable Radios and two (2) people from S/F to cycle valves. NOTE 2: It is mandatory that ship's force personnel are present to cycle valves. 1. Conduct TARGET Assessment of Remote Manually Operated Valve. NOTE 3: There are four kinds of remote operating gear. Rigid Rod System. N (2) Flexible Shaft System. 유 (3) Combination Rigid Rod and Flexible Shaft System. (4) Teleflex RMVA System. w a. Assess all valves for any missing label plates, DC number, valve number, valve designation, DC classification at the remote location and adjacent to the valve and handwheel. b. Assess deck box cover for ease of operation, check for missing o-ring(s) and check for cuts or tears in the o-ring. Check chain assembly breaks. c. Assess shaft and shaft assembly for excessive wear or corrosion and ensure shear pin is installed. Assess universal joint. Check 90 degree gear box, swivel gear joint, and rising stem for misalignment. d. Assess for adequate support of the flexible shaft and check for cracks, distortion, rust, and corrosion. e. Assess valve coupling, handles, handwheels, and rising stem valve for cracks, breaks, deterioration, rust, corrosion, and damaged or missing parts. f. Assess all mounting bolts, nuts, and packing gland studs for rust, corrosion, loose, and damaged or missing parts. z

PROCEDURE (Contd)
Preliminary

NOTE	5 4:	station and the valve location before ship's force personnel cycle the valve.	
NOTE	5:	Before cycling any discharge or suction valve for fire pumps, check with CCS. Ensure main, secondary drain, and cooling valves are cycled in the correct order.	SW
WARN	IING:	Ensure valve can be operated without disrupting equipmen plant or system operation and will not cause flooding.	t,
	b. c. d. d. d. d. d. d.	Station a man at the remote station and a man at the valve(s). Establish communication. Operate each valve through a full travel cycle; assess for freedom of movement. Observe position indicator, for correct indication when valve is in the fully open position and fully closed position.  Assess linkage for proper operation.  Ensure valve is easy to operate at the deck box and at the valve.	
NOTE 6: If the valve appears frozen and the valve coupling has a quick disconnect, disconnect the rigid rod from the valve to determine if rigid rod is frozen or if the valve is frozen. If possible try to free-up the valve if the valve is frozen, then connect and test the rigid rod again from remote operator.			
		Remove safety tag(s) from isolation valve(s), if applicable. Return system to readiness condition.	PAGE
3.	All	discrepancies shall be noted on applicable discrepancy	3 OF 3
			AAAA

PROCEDURE (Contd)
2. Test Operate Remote Manually Operated Valve.

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